=> file reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 10:45:36 ON 01 JUL 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2 DICTIONARY FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=>

Uploading C:\Program Files\Stnexp\Queries\943037.str

L1 STRUCTURE UPLOADED

=> id 11

ID IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=> d 11

L1 HAS NO ANSWERS

T.1 STF

$$\begin{bmatrix} G3 & O \\ O-1 \\ G1 & O \end{bmatrix} 0-5$$

G1 C,O,S,N

G2 O, S, N

G3 O, S, CN, X

Structure attributes must be viewed using STN Express query preparation.

=> s 11 sss full FULL SEARCH INITIATED 10:46:18 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 66962 TO ITERATE

100.0% PROCESSED 66962 ITERATIONS SEARCH TIME: 00.00.03

STR

0 ANSWERS

L2

L1

0 SEA SSS FUL L1

=> => d ll L1 HAS NO ANSWERS

 $\begin{bmatrix} G3 & O \\ O-1 & G2 \\ CH \end{bmatrix}_{1-4}$ 

G1 C,O,S,N

G2 O, S, N

G3 O, S, CN, X

Structure attributes must be viewed using STN Express query preparation.

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptau121rlr

## PASSWORD:

\* \* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \* SESSION RESUMED IN FILE 'REGISTRY' AT 11:04:32 ON 01 JUL 2004 FILE 'REGISTRY' ENTERED AT 11:04:32 ON 01 JUL 2004 COPYRIGHT (C) 2004 American Chemical Society (ACS) COST IN U.S. DOLLARS SINCE FILE

ENTRY SESSION 166.76 166.97

TOTAL

FULL ESTIMATED COST

=> file req

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 166.76 166.97

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2 DICTIONARY FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

Uploading C:\Program Files\Stnexp\Queries\943037a.str

STRUCTURE UPLOADED

=> d 13

L3 HAS NO ANSWERS

L3 STR

G1 C, O, S, N

G2 O, S, N

G3 O, S, CN, X

G4 O, X

Structure attributes must be viewed using STN Express query preparation.

=> s 13 sss full FULL SEARCH INITIATED 11:05:11 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 417821 TO ITERATE

95.7% PROCESSED 400000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.03

4397 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*INCOMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS:

417821 TO 417821

PROJECTED ANSWERS:

4397 TO 4795

L4 4397 SEA SSS FUL L3

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 155.42 322.39

FILE 'CAPLUS' ENTERED AT 11:05:29 ON 01 JUL 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 1 Jul 2004 VOL 141 ISS 1 FILE LAST UPDATED: 30 Jun 2004 (20040630/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 14

L5. 1668 L4

=>

Uploading C:\Program Files\Stnexp\Queries\943037.str

L6 STRUCTURE UPLOADED

=> d 16

L6 HAS NO ANSWERS

L6

STR

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Structure attributes must be viewed using STN Express query preparation.

=> s 6 sss full L7 3430462 6

=> s 16 sss full

## REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 11:11:37 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 66962 TO ITERATE

100.0% PROCESSED 66962 ITERATIONS

15 ANSWERS

SEARCH TIME: 00.00.03

L8 15 SEA SSS FUL L6

L9 1 L8

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL SESSION 0.46 484.77

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 11:11:48 ON 01 JUL 2004
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FILE COVERS 1907 - 1 Jul 2004 VOL 141 ISS 1 FILE LAST UPDATED: 30 Jun 2004 (20040630/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 19 L10 1 L8

=> d 110 ibib abs hitstr

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:171849 CAPLUS

DOCUMENT NUMBER: 136:216531

TITLE: Herbicidal benzoylcyclohexanedione derivatives

INVENTOR(S): Seitz, Thomas; Van Almsick, Andreas; Willms, Lothar;

Bieringer, Hermann; Auler, Thomas; Menne, Hubert

PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
                               DATE
                                                APPLICATION NO.
                                                                    DATE
                        KIND
                        ____
                                                -----
                               20020307
                                                WO 2001-EP9600
                                                                    20010821
     WO 2002018331
                         A1
          W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CO, CR,
              CU, CZ, DM, DZ, EC, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PH, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN, YU, ZA,
              AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
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              BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
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                         A1
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     EP 1315697
                         A1
                               20030604
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                               20031031
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                         Α
PRIORITY APPLN. INFO.:
                                             DE 2000-10043074 A
                                                                    20000901
                                             WO 2001-EP9600
                                                              W
                                                                    20010821
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OTHER SOURCE(S): MARPAT 136:216531

GΙ

Benzoylcyclohexanediones I [X1 = 0, S(0)n, (un) substituted NH; X2 = AΒ (un) substituted alkylene, alkenylene, alkynylene; C1 = (un) substituted mono-, bi- or tricycloalkyl, -oxacycloalkyl; R1, R2 = H, SH, NO2, CN, halogen, SCN, R3CO2, R3 S(O)nO, R3S(O)n, R32NSO2, R3SO2NH, R3NHCO, substituted amino, 1,2,4-triazol-1-yl, R3OCH2, R3S(O)nCH2, R3NHCH2, R32NCH2, 1,2,4-triazol-1-ylmethyl, (un)substituted alkoxy, alkylthio, alkenyloxy, alkenylthio, alkynyloxy, alkynylthio, cycloalkoxy, cycloalkylthio; R3 = (un) substituted alkyl; R4 = (un) substituted OH, SH, R3S(O)n, CN, NCO, NCS, halogen; R5 = (un)substituted tetrahydropyranyl, tetrahydrothiopyranyl, alkyl, cycloalkyl, alkoxy, acyl, alkoxycarbonyl, alkylthio, Ph; Y = O, S, NH, NR3, CHR3, CR32; Z = O, S, SO, SO2, NR3, NH, CHR3, CR32; n = 0-2; p = 0, 1; w = 0-4] were prepared for use as herbicides. Thus, 2,4,3-Br2(HO)C6H2CO2Et was converted to the cyclobutylmethoxy derivative, hydrolyzed to the free acid, converted to the 3-oxo-1-cyclohexenyl ester, and rearranged to the ketone II. At 1 kg/ha II showed both preand post-=emergence herbicidal activity.

Ι

## IT 402790-47-0P 402790-58-3P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of herbicidal benzoylcyclohexanedione derivs.)

RN 402790-47-0 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2,4-dibromo-3-(cyclobutylmethoxy)benzoyl]- (9CI) (CA INDEX NAME)

402790-58-3 CAPLUS

RN

CN 1,3-Cyclohexanedione, 2-[2,4-dibromo-3-(cyclohexylmethoxy)benzoyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} C1 & O & O \\ \hline \\ CH_2-O & C & C \\ \hline \\ C & O \\ \hline \\ Et & O \\ \end{array}$$

RN 402790-49-2 CAPLUS
CN 1,3-Cyclohexanedione, 2-[2-chloro-3-(3-cyclohexen-1-ylmethoxy)-4(methylsulfonyl)benzoyl]- (9CI) (CA INDEX NAME)

RN 402790-50-5 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2-chloro-3-(cyclopentylmethoxy)-4-(methylsulfonyl)benzoyl]- (9CI) (CA INDEX NAME)

RN 402790-51-6 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2-chloro-3-(cyclobutylmethoxy)-4-(methylsulfonyl)benzoyl]- (9CI) (CA INDEX NAME)

RN 402790-57-2 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2,4-dichloro-3-(cyclohexylmethoxy)benzoyl]- (9CI) (CA INDEX NAME)

RN 402790-59-4 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2-chloro-3-(cyclohexylmethoxy)-4-(ethylsulfonyl)benzoyl]- (9CI) (CA INDEX NAME)

RN 402790-60-7 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2,4-dichloro-3-(3-cyclohexen-1-ylmethoxy)benzoyl}(9CI) (CA INDEX NAME)

RN 402790-61-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2-chloro-3-(3-cyclohexen-1-ylmethoxy)-4-(ethylsulfonyl)benzoyl]- (9CI) (CA INDEX NAME)

RN 402790-62-9 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2,4-dichloro-3-(cyclopentylmethoxy)benzoyl](9CI) (CA INDEX NAME)

RN 402790-63-0 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2,4-dibromo-3-(cyclopentylmethoxy)benzoyl]- (9CI) (CA INDEX NAME)

RN 402790-64-1 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2,4-dichloro-3-(cyclobutylmethoxy)benzoyl]- (9CI) (CA INDEX NAME)

RN 402790-65-2 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2-chloro-3-(cyclobutylmethoxy)-4-(ethylsulfonyl)benzoyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT